

# Annual Environmental Report

2019



Kilkenny City and Environs

D0018-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0018-01, Kilkenny City and Environs, in Kilkenny in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

## 1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

Grit removal system installed in 2019. New pumping station installed to take waste from the rear of the site from Purcellsinch Industrial Estate. Works currently ongoing to reduce to one aerator. Plans to upgrade PFT in 2019 See IW programme of works for any further planned upgrades.

## 1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- KILKENNY CITY AND ENVIRONS WWTP with a Plant Capacity PE of 77000, the treatment type is 3P - Tertiary P removal

## 1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF1500D0018SW001	KILKENNY CITY AND ENVIRONS WWTP	Treated	Compliant	N/A

## 1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

## 2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

### 2.1 KILKENNY CITY AND ENVIRONS WWTP - TREATED DISCHARGE

#### 2.1.1 INFLUENT MONITORING SUMMARY - KILKENNY CITY AND ENVIRONS WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
COD-Cr mg/l	153	1161	570.68
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	49	258	103.63
Total Nitrogen mg/l	76	65	41.72
Total Phosphorus (as P) mg/l	107	19.4	6.52
Suspended Solids mg/l	153	1268	331.14
Hydraulic Capacity	N/A	24967	9338

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

#### Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is less than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

## 2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF1500D0018SW001

Parameter	WDDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	153	N/A	N/A	24.82	Pass
Suspended Solids mg/l	35	87.5	N/A	153	N/A	N/A	7.17	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	49	N/A	N/A	2.46	Pass
pH pH units	9	9	N/A	153	N/A	N/A	7.85	Pass
Ammonia-Total (as N) mg/l	3	3.6	N/A	115	N/A	N/A	0.14	Pass
Total Phosphorus (as P) mg/l	2	2.4	N/A	99	N/A	N/A	0.33	Pass
ortho-Phosphate (as P) - unspecified mg/l	0.5	0.6	N/A	111	N/A	N/A	0.23	Pass
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	37	N/A	N/A	4.69	
Total Nitrogen mg/l	N/A	N/A	N/A	77	N/A	N/A	5.37	

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

### Cause of Exceedance(s):

Not applicable

### Significance of Results:

The WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

## 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1500D0018SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
Upstream	253230, 154517	RS15N011990	No	No	No	No	Good
Downstream	253387, 154460	RS15N011993	No	No	No	No	Good

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
<b>BOD - 5 days (Total) mg/l</b>	RS15N011990	0.5	RS15N011993	1.05	1.5	36.7
<b>Ammonia-Total (as N) mg/l</b>	RS15N011990	0.028	RS15N011993	0.027	0.065	-1.2
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	RS15N011990	0.019	RS15N011993	0.023	0.035	12.1
<b>Nitrite (as N) mg/l</b>	RS15N011990	0.01	RS15N011993	0.01		
<b>Temperature °C</b>	RS15N011990	12.625	RS15N011993	12.1		
<b>Nitrate (as N) mg/l</b>	RS15N011990	2.685	RS15N011993	2.73		
<b>Sulphate mg/l</b>	RS15N011990	29.475	RS15N011993	30.05		
<b>Conductivity 20 C µS/cm</b>	RS15N011990	427.75	RS15N011993	416.5		
<b>Dissolved Oxygen % O2</b>	RS15N011990	99.525	RS15N011993	98.85		
<b>Chloride mg/l</b>	RS15N011990	18.05	RS15N011993	18.3		
<b>pH pH units</b>	RS15N011990	8.543	RS15N011993	8.555		
<b>Total Nitrogen mg/l</b>	RS15N011990	2.447	RS15N011993	2.54		

### Significance of Results:

The WWTP discharge was compliant with the ELV's set in the wastewater discharge licence.



The ambient monitoring results meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.

## 2.1.4 OPERATIONAL PERFORMANCE SUMMARY - KILKENNY CITY AND ENVIRONS WWTP

### 2.1.4.1 Treatment Efficiency Report - KILKENNY CITY AND ENVIRONS WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
TP	21559	1174	95
TN	134102	18393	86
COD	1883033	87525	95
SS	1092637	25277	98
cBOD	341562	8660	97

Note: The above data is based on sample results for the number of dates reported

### 2.1.4.2 Treatment Capacity Report Summary - KILKENNY CITY AND ENVIRONS WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

<b>KILKENNY CITY AND ENVIRONS WWTP</b>	
<b>Peak Hydraulic Capacity (m<sup>3</sup>/day) - As Constructed</b>	50904
<b>DWF to the Treatment Plant (m<sup>3</sup>/day)</b>	16968
<b>Current Hydraulic Loading - annual max (m<sup>3</sup>/day)</b>	24967
<b>Average Hydraulic loading to the Treatment Plant (m<sup>3</sup>/day)</b>	9338
<b>Organic Capacity (PE) - As Constructed</b>	77000
<b>Organic Capacity (PE) - Collected Load (peak week)<sup>Note1</sup></b>	38082
<b>Organic Capacity (PE) - Remaining</b>	38918
<b>Will the capacity be exceeded in the next three years? (Yes/No)</b>	No

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

## **2.1.5 SLUDGE / OTHER INPUTS - KILKENNY CITY AND ENVIRONS WWTP**

'Other inputs' to the waste water treatment plant are summarised in table below

<b>Input type</b>	<b>Quantity</b>	<b>Unit</b>	<b>P.E.</b>	<b>% of load to WWTP</b>	<b>Included in Influent Monitoring (Y/N)?</b>	<b>Is there a leachate/sludge acceptance procedure for the WWTP?</b>	<b>Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)</b>
<b>Industrial / Commercial Sludge</b>	224	Volume (m <sup>3</sup> )		5	Yes	Yes	No

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Industrial / Commercial Sludge	1324	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	1074	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	6651	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	2107	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	913	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	18	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	13	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	109	Volume (m3)		5	Yes	Yes	No

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Industrial / Commercial Sludge	116	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	259	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	109	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	1087	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	615	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	145	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	232	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	112	Volume (m3)		5	Yes	Yes	No

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Industrial / Commercial Sludge	77	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	344	Volume (m3)		5	Yes	Yes	No
Landfill Leachate (delivered by tanker)	1168	Volume (m3)		1	Yes	Yes	No
Industrial / Commercial Sludge	1200	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	31	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	89	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	1945	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	1245	Volume (m3)		5	Yes	Yes	No

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
Industrial / Commercial Sludge	1192	Volume (m3)		5	Yes	Yes	No
Domestic /Septic Tank Sludge	691	Volume (m3)		1	Yes	Yes	No
Industrial / Commercial Sludge	633	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	2362	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	222	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	2522	Volume (m3)		5	Yes	Yes	No
Industrial / Commercial Sludge	36	Volume (m3)		5	Yes	Yes	No
Domestic /Septic Tank Sludge	80	Volume (m3)		1	Yes	Yes	No
Waterworks Sludge	11279	Volume (m3)		5	Yes	Yes	No

## 3 COMPLAINTS AND INCIDENTS

### 3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
2	Blocked Sewer	0	2

### 3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

#### 3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
<b>Abatement Equipment offline</b>	Plant or equipment breakdown at WWTP	1	No	Yes
<b>Uncontrolled release</b>	EO caused by pump failure	1	No	Yes

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	2
Number of Incidents reported to the EPA via EDEN in 2019	2
Explanation of any discrepancies between the two numbers above	N/A



## 4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

### 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

#### 4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
<b>SW002</b>	251753, 155369.1	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW003</b>	250713.9, 156076.21	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW004</b>	251284, 155868	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW013</b>	250148, 156114.4	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW015</b>	250225, 156121	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
<b>SW017</b>	250448.88, 156787.92	Yes	Low	Meeting	Unknown	Unknown	Not Monitored

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
<b>SW018</b>	250010.9, 158102.7	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW019</b>	249500, 155879	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
<b>TBC</b>	249967.15, 154862.79	No	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>TBC</b>	250753.6, 156069.6	No	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>TBC</b>	253243.7, 154520	No	Unknown	Not yet Assessed	Unknown	Unknown	Unknown
<b>TBC</b>	251361, 155883	No	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW005</b>	250788.5, 155825.1	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
<b>SW006</b>	250707, 156228	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
<b>SW007</b>	250713.9, 156076.21	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
<b>SW008</b>	250427, 156242	Yes	Low	Meeting	Unknown	Unknown	Not Monitored

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
SW009	250628, 156452	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW010	250641.32, 156425.49	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
SW011	251756, 155427	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW012	249904, 155074	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW014	250211, 156111	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW016	250448, 156787	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
SW021	251755.77, 155216.01	Yes	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
SWO20	250753.6, 156069.6	Yes	Low	Meeting	Unknown	Unknown	Not Monitored
TBC	250466.29, 158553.87	No	Low	Not yet Assessed	Unknown	Unknown	Not Monitored
TBC	250629.2, 156449.53	No	Low	Not yet Assessed	Unknown	Unknown	Not Monitored

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
TBC	251807, 155463	No	Unknown	Not yet Assessed	Unknown	Unknown	Not Monitored

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	No

## 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

### 4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NAY)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0018-SIP:01</b>	Phosphorous reduction (ferric dosing)	C	31/12/2013	Yes	Works Completed		

A summary of the status of any improvements identified by under Condition 5.2 is included below.

#### 4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
<b>There are no Improvements Programme for this Agglomeration.</b>				

#### 4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

## 5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes	2015	No	

### 5.1 PRIORITY SUBSTANCES ASSESSMENT

The Priority Substances Assessment Report has been included in the AER 2015

## 6 CERTIFICATION AND SIGN OFF

### 6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	No

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed:    Date: 18/05/2020

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Katherine Walshe

Acting Head of Environmental Regulation.



## **7 APPENDIX**

There are no Appendices included